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United States Patent [19]

Simon

[11] **Patent Number:** **5,182,857**[45] **Date of Patent:** **Feb. 2, 1993**[54] **SHAVING APPARATUS**[75] **Inventor:** Pal Simon, Warstein, Fed. Rep. of Germany[73] **Assignee:** U.S. Philips Corp., New York, N.Y.[21] **Appl. No.:** 679,077[22] **PCT Filed:** Oct. 29, 1990[86] **PCT No.:** PCT/EP90/01929

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[51] **Int. Cl.⁵** **A61B 17/00**[52] **U.S. Cl.** **30/34.05; 30/140;**
132/118; 606/9[58] **Field of Search** 30/140, 32, 34.05;
606/9, 19, 13; 132/118[56] **References Cited****U.S. PATENT DOCUMENTS**3,693,623 9/1972 Harte et al. 606/9
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Primary Examiner—Douglas D. Watts*Assistant Examiner*—Hwei-Siu Payer*Attorney, Agent, or Firm*—Ernestine C. Bartlett[57] **ABSTRACT**

The invention relates to a shaving apparatus which is characterized in that a laser beam (13) serves as the cutting means, and to a method of removing body hairs by means of such a shaving apparatus. The shaving apparatus comprises a shear plate (11) with an entry slot (24). The laser beam (13) is generated by a device (12), severs the hair in the proximity of the entry slot, and is preferably reflected from the shear plate and detected by a photo-cell (18). The shaving apparatus in accordance with the invention enables body hairs to be severed without irritating the skin.

10 Claims, 3 Drawing Sheets